

Chapter 9 Moments Of Inertia

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Chapter 9, Distributed Forces: Moments of Inertia

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CHAPTER 9: Moments of Inertia! Moment of Inertia of Areas! Second Moment, or Moment of Inertia, of an Area! Parallel-Axis

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Theorem! Radius of Gyration of an Area! Determination of the Moment of Inertia of an Area by Integration! Moments of Inertia of Composite Areas! Polar Moment of Inertia

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Chapter 9 Moments Of Inertia Chapter 9, Distributed Forces: Moments of Inertia □ Previously considered distributed forces which were proportional to the area or volume over which they act. - The resultant was obtained by summing or integrating over the areas or volumes. - The Page 2/10

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Chapter 9, Problem 8 : 9.13. Determine the mass moment of inertia of... 9.13. Determine the mass moment of inertia of steel balls used in ball bearings. Use a diameter of 2 cm. Step-By-Step Solution. 9.13. SOLUTION. We will first calculate the mass of the sphere using Equation (9.1).

Solved > 9.13. Determine the mass moment of inertia of ...

PROBLEM 9.2. Determine by direct integration the moment of inertia of the shaded area with respect to the y axis. SOLUTION. At x = a, y = a, : a k a = or. k a = 2. Then y = x = 2. Now dI = x dA = x y dx = x (x - 2) dx = x^2 dx - 2x dx = (1/3)x^3 - x^2. I = ∫_0^2 [(1/3)x^3 - x^2] dx = (1/12)x^4 - (1/3)x^3 |_0^2 = (1/12)(16) - (1/3)(8) = 4/3 - 8/3 = -4/3. I = 4/3. b

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CHAPTER 3CHAPTER 9 - LPU GUIDE

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The moment of inertia of the region about the x- and y-axis: $I_x = b h^3 / 36 = 120 (160)^3 / 36 = 13.653 \times 10^6 \text{ m}^4$ $I_y = b^3 h / 36 = (120)^3 (160) / 36 = 7.680 \times 10^6 \text{ m}^4$ And, the product of inertia: $I_{xy} = \square b^2 h^2 / 72 = \square (120)^2 (160)^2 / 72 = \square 5.120 \times 10^6 \text{ m}^4$ T h e t e r m s: $b = I_x + I_y = 13.653 + 7.680 \times 10^6 = 10.667 \times 10^6 \text{ m}^4$ $R = (I_x + I_y)^2 + I_{xy}^2 = (13.653 + 7.680 \times 10^6)^2 + (\square 5.120 \times 10^6)^2$ $R = 5.927 \times 10^6 \text{ m}^4$ H e n c e, The principal moments of ...

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Find the principal moments of inertia and the principal ...

Statics Lecture on Chapter 10.1 - Definition of Moment of Inertia

Chapter 10.2 - Parallel-Axis Theorem for an Area Chapter 10.3 -

Radius of Gyration of an Ar...

Moments of Inertia (Statics 10.1-10.4) - YouTube

Edition 9 - 18. Sample Problem 9.5. SOLUTION : □ Compute the

moments of inertia of the bounding rectangle and half-circle with

respect to the x axis. Rectangle: () () 64 3 3 1 3 $I_x = bh^3 = 240 120$

$= 138 .2 \times 10^6 \text{ mm}^4$ Half-circle: moment of inertia with respect to AA□,

() 4 64 8 4 1 8 $I_{AA} = \frac{1}{8} \pi r^4 = 25 .76 \times 10^6 \text{ mm}^4$.

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9 - 6 Polar Moment of Inertia □ The polar moment of inertia is an

important parameter in problems involving torsion of cylindrical

shafts and rotations of slabs. $J = \int r^2 dA$ □ The polar moment of

inertia is related to the rectangular moments of inertia, $J = I_x + I_y$ □

$J = \int r^2 dA = \int (x^2 + y^2) dA = \int x^2 dA + \int y^2 dA = I_x + I_y$

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STATICS

The moment of inertia with respect to the y-axis for the elemental area shown may be determined using the previous definition. $I_y = \int x^2 dA$ where $dA = y dx$. Thus, $I_y = \int x^2 y dx$. The sign (+ or -) for the moment of inertia is determined based on the area. If the area is positive, then the moment of inertia is positive.

Chapter 10: Moments of Inertia - Statics 4300:201

Moments of Inertia of area: Rectangular moment of inertia. The moment of inertia is a concept appearing in formulations of several physical phenomena. The mathematical definition of the moment of inertia of an area (two-dimensional region) about an axis is, where I_m is the moment of inertia of the area about an axis in the plane of the area, and m is the distance from axis m to the centroid of the differential area as shown in Fig. 10.1.

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